

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 April 2004 (08.04.2004)

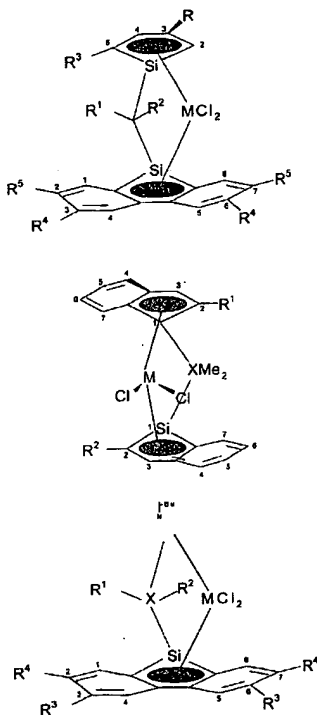
PCT

(10) International Publication Number  
WO 2004/029107 A1

- (51) International Patent Classification<sup>7</sup>: C08F 10/00, (74) Common Representative: ATOFINA RESEARCH S.A.; Patent Department, Zone Industrielle C, B-7181 Seneffe (Feluy) (BE).
- (21) International Application Number: PCT/EP2003/010713
- (22) International Filing Date: 24 September 2003 (24.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 02079065.5 27 September 2002 (27.09.2002) EP
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: SILICON CONTAINING CYCLOPENTADIENYL RING FOR METALLOCENE CATALYST COMPONENTS



(57) Abstract: The present invention refers to a metallocene catalyst component for producing polyolefins according to formula (I)  $R''_n(CpR_n)_2(CpR_n)M Q_{3-n}$  (I) or according to formula (II)  $R''(CpR_n)MeXQ$  (II) wherein - each Cp is a substituted or unsubstituted cyclopentadienyl ring with the bridge-head position of at least one of the cyclopentadienyl rings being occupied by a silicon atom; - each R is the same or different and is hydrogen or a hydrocarbyl radical such as alkyl, alkenyl, aryl, alkylaryl or arylalkyl radical containing from 1 to 20 carbon atoms or two carbon atoms are joined together to form a C4-C6 ring; - R'' is a structural bridge between two Cp rings; - M is a group IIIB, IVB, VB or VIB metal; - Q is a hydrocarbyl radical such as aryl, alkyl, alkenyl, alkylaryl or arylalkyl radical having from 1 to 20 carbon atoms, a hydrocarboxy radical having from 1 to 20 carbon atoms or a halogen and can be the same or different from each other; - s is 0 or 1, g is 0, 1 or 2 and s is 0 when g is 0, n is 4 when s is 1 and n is 5 when s is 0; - X is an hetero atom ligand with one or two lone pair electrons and selected from the group VA or VIA, substituted or unsubstituted. Said metallocene catalyst component is used in a catalyst system for preparing polyolefins with desired properties.